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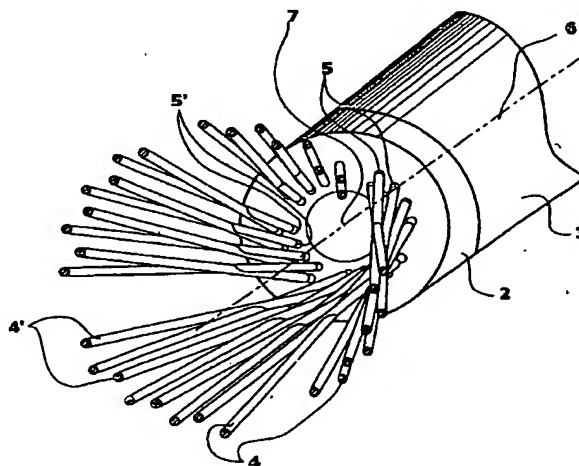
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(54) Title: INJECTOR FOR METAL MELTING FURNACES



(57) Abstract: The following invention relates to an injector-burner for applications in the metalwork field, in particular for use in electric arc furnace melting processes having a frontal head with two series of holes arranged in two concentric crowns, the inner crown of holes used to feed fuel and the outer crown used to supply a supporter of combustion. A central hole is also provided, which is fitted with an oxygen injection nozzle. The holes of the two crowns are divided into groups separated by circular sectors without holes, in order to create a number of flames and are inclined in such a way as to give the gases supplied, and consequentially the flame generated, a rotation around the injector-burner axis. By regulating the flow-rates of the fuel and the supporter of combustion supplied to the various holes, the injector-burner is able to regulate the flame shape in burner mode and also in injection mode, thus guaranteeing optimum performance in all modes.

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